

Title (en)

CONTROL OF HUMIDIFIER CHAMBER TEMPERATURE FOR ACCURATE HUMIDITY CONTROL

Title (de)

KONTROLLE DER TEMPERATUR EINER BEFEUCHTERKAMMER ZUR GENAUEN FEUCHTIGKEITSKONTROLLE

Title (fr)

RÉGULATION DE LA TEMPÉRATURE DE CHAMBRE D'UN HUMIDIFICATEUR POUR UNE RÉGULATION PRÉCISE DE L'HUMIDITÉ

Publication

EP 2300088 A4 20140716 (EN)

Application

EP 09755102 A 20090527

Priority

- NZ 2009000091 W 20090527
- US 5633508 P 20080527

Abstract (en)

[origin: WO2009145646A1] A breathing assistance system for delivering a stream of heated, humidified gases to a user, comprising a humidifier unit which holds and heats a volume of water, and which in use receives a flow of gases from a gases source via an inlet port, the flow of gases passing through the humidifier and exiting via an exit port, the system further having a temperature sensor which measures the temperature of the gases exiting the humidifier unit, an ambient temperature sensor which measures the temperature of gases before they enter the humidifier unit, and a flow sensor which measures the flow rate of the gases stream, the system also having a controller which receives data from the temperature and flow sensors, and which determines a control output in response, the control output adjusting the power to the humidifier unit to achieve a desired output at the humidifier unit exit port.

IPC 8 full level

A61M 16/16 (2006.01); **A61M 16/10** (2006.01); **A62B 7/00** (2006.01)

CPC (source: EP US)

A61M 16/0012 (2014.02 - US); **A61M 16/0051** (2013.01 - US); **A61M 16/0069** (2014.02 - US); **A61M 16/026** (2017.08 - EP US); **A61M 16/0465** (2013.01 - US); **A61M 16/0666** (2013.01 - US); **A61M 16/0875** (2013.01 - US); **A61M 16/1075** (2013.01 - EP US); **A61M 16/1085** (2014.02 - EP); **A61M 16/109** (2014.02 - EP US); **A61M 16/1095** (2014.02 - EP US); **A61M 16/16** (2013.01 - EP US); **A61M 16/161** (2014.02 - EP US); **A61M 16/0841** (2014.02 - EP US); **A61M 2205/3368** (2013.01 - EP US)

Citation (search report)

- [IY] WO 2004020031 A1 20040311 - FISHER & PAYKEL HEALTHCARE LTD [NZ], et al
- [Y] US 2004221844 A1 20041111 - HUNT PETER JOHN [AU], et al
- [A] EP 1647297 A2 20060419 - FISHER & PAYKEL HEALTHCARE LTD [NZ]
- See also references of WO 2009145646A1

Cited by

EP3756719A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009145646 A1 20091203; AU 2009251939 A1 20091203; AU 2009251939 B2 20150806; CA 2726116 A1 20091203; CA 2726116 C 20230124; CA 3051967 A1 20091203; CA 3051967 C 20211214; CA 3136771 A1 20091203; CN 102105189 A 20110622; CN 102105189 B 20150729; CN 105031796 A 20151111; CN 105031796 B 20200313; CN 110193124 A 20190903; CN 110193124 B 20230725; CN 110251796 A 20190920; CN 110251796 B 20220708; CN 110711305 A 20200121; CN 110711305 B 20230725; CN 110721386 A 20200124; CN 110721386 B 20230620; CN 116617509 A 20230822; CN 116617510 A 20230822; DK 2300088 T3 20160523; DK 3028732 T3 20180820; EP 2300088 A1 20110330; EP 2300088 A4 20140716; EP 2300088 B1 20160224; EP 3028732 A1 20160608; EP 3028732 B1 20180509; EP 3398642 A1 20181107; EP 3398642 B1 20200722; EP 3756719 A1 20201230; EP 3756719 B1 20240124; EP 4368229 A2 20240515; ES 2573263 T3 20160606; ES 2683235 T3 20180925; ES 2826754 T3 20210519; JP 2011521705 A 20110728; JP 2015071048 A 20150416; JP 2018108380 A 20180712; JP 2020142099 A 20200910; JP 2022167912 A 20221104; JP 5930165 B2 20160608; JP 6280493 B2 20180214; JP 7123090 B2 20220822; PT 3756719 T 20240416; US 10058663 B2 20180828; US 11344688 B2 20220531; US 2011120462 A1 20110526; US 2012037156 A9 20120216; US 2014166005 A1 20140619; US 2019151583 A1 20190523; US 2022273895 A1 20220901; US 8616202 B2 20131231

DOCDB simple family (application)

NZ 2009000091 W 20090527; AU 2009251939 A 20090527; CA 2726116 A 20090527; CA 3051967 A 20090527; CA 3136771 A 20090527; CN 200980127131 A 20090527; CN 201510363061 A 20090527; CN 201910410845 A 20090527; CN 201910410853 A 20090527; CN 201910982478 A 20090527; CN 201910987038 A 20090527; CN 202310579536 A 20090527; CN 202310579547 A 20090527; DK 09755102 T 20090527; DK 16150408 T 20090527; EP 09755102 A 20090527; EP 16150408 A 20090527; EP 18164565 A 20090527; EP 20178521 A 20090527; EP 24153536 A 20090527; ES 09755102 T 20090527; ES 16150408 T 20090527; ES 18164565 T 20090527; JP 2011511538 A 20090527; JP 2014231433 A 20141114; JP 2018007016 A 20180119; JP 2020081903 A 20200507; JP 2022126856 A 20220809; PT 20178521 T 20090527; US 201314092488 A 20131127; US 201816053434 A 20180802; US 202217661612 A 20220502; US 99545809 A 20090527